

**(Following Paper ID and Roll No. to be filled in your Answer Books)****PAPER ID :****Roll No.**

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**MCA****Theory Examination (Semester-IV) 2015-16****WEB TECHNOLOGY -2****Time : 3 Hours****Max. Marks : 100**

1. Attempt all parts. All parts carry **equal** marks. Write answer of each part in short. **(2 x 10 =20)**

- (a) How do you set the goals or objectives for Web Sites?
- (b) How do you determine the scope of a Web Project?
- (c) How to do Servlet Initialization?
- (d) What happens when an exception occurs within a method?
- (e) When should Synchronization be used in Java?
- (f) How we create a Global.asa file in asp?
- (g) What are Cookies in ASP?
- (h) What are the differences between `require` and `include`, `include_once` and `require_once`?
- (i) What are the different types of errors in PHP?
- (j) What is an image map? How is it useful?

**SECTION-B**

2. Attempt any **five** questions from this section.

**(10 x 5 = 50)**

- (a) Discuss the methodologies used for web application hacking?
- (b) Write a brief note on Enumeration interface and discuss two methods declared by Enumeration.  
Write a Java program that shows usage of Enumeration. Discuss the output.
- (c) What is XHTML? In what way it differs from HTML? Give an example that shows an XHTML document with a minimum of required tags.
- (d) What are different thread priorities defined in Java. Discuss two ways by which a thread is created in Java. Write a program in Java that create a thread by extending Thread class.
- (e) (i) Discuss the method of calling Java Beans in JSP page with example.  
(ii) How can I implement a thread-safe JSP page? What are the advantages and Disadvantages of using it?
- (f) Enlist the steps for writing JMS Clients (Sender and Receiver).

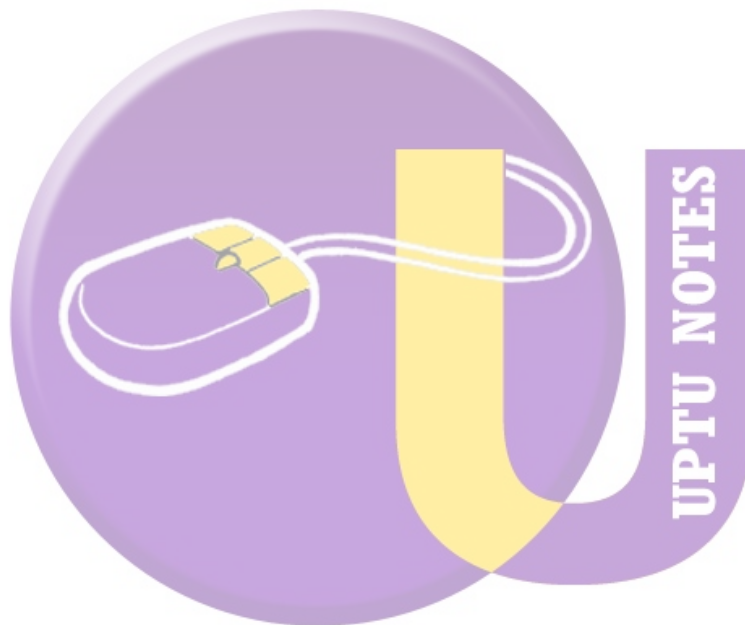
- (g) Discuss some of the common vulnerabilities with respect to access control.
- (h) Explain some mechanisms for securing the database against the web attacks

### SECTION-C

Attempt any **two** questions from this section.

**(15 x 2 = 30)**

3. (i) What are the different tables present in MySQL? Which type of table is generated when we are creating a table in the following syntax: create table employee(eno int(2),ename varchar(10))  
(ii) List the six concrete steps needed to create the site's information architecture
4. Develop an e-commerce application to enable users to do online shopping.
5. Explain the following :
  - (i) Sharing Information using scope object (ii) JNDI (iii) JMS and Message Driven Bean.



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